

# BEST AVAILABLE COPY



PTO/SB/08a (08-03)

 Approved for use through 07/31/2006. OMB 0651-0031  
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

4

Complete if Known	
Application Number	10/820,634 10/821,207
Filing Date	04-08-2004
First Named Inventor	Venkat SELVAMANICKAM
Art Unit	1763
Examiner Name	Unknown Zervigen
Attorney Docket Number	5005469-004US1

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
T	a	US- 2002/0192377 A1	12-19-2002	Bartholomew, et al.	118/715 927/2528
	b	US- 2004/0060514 A1	04-01-2004	Janakiraman, et al.	118/715
	c	US- 2001/0056041	12-27-2001	Jia, Quanxi, et al.	505/100
	d	US- 2003/0036483	02-20-2003	Arendt, Paul, N.; et al.	505/239
	e	US- 3,933,028	01-20-1976	Laud, et al.	73/23,32
	f	US- 4,001,758	01-04-1977	Esper, et al.	338/34
	g	US- 4,004,452	01-25-1977	Logothetis, et al.	73/23,32
	h	US- 4,344,127	08-10-1982	McDaniel, et al.	700/1
	i	US- 4,396,976	08-02-1983	Hyatt	700/1
	j	US- 4,413,502	11-08-1983	Ohta, et al.	73/23,31
	k	US- 4,443,781	04-17-1984	Ohta, et al.	338/34
	l	US-4,450,428.	05-22-1984	Ohta, et al.	338/34
	m	US- 4,453,397	06-12-1984	Ohta, et al.	338/34
	n	US- 4,646,223	02-24-1987	Sekiguchi	700/1
	o	US- 4,777,022	10-11-1988	Boldish, et al.	118/1000
	p	US-4,916,600	04-10-1990	Ropelato	700/1
	q	US-4,949,669	08-21-1990	Ishii, et al.	118/719
	r	US- 5,059,770	10-22-1991	Mahawili	219/39/
	s	US- 5,204,314	04-20-1993	Kirlin, et al.	505/447
	t	US- 5,324,361	06-28-1994	Etzkorn, et al.	118/719

FOREIGN PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)			
T	u	EP 1103632 A1	05-30-2001	Ishikawa	
	v	EP 1349968	07-18-2002	Stadel	
	w	EP 1386981 A1	02-04-2004	Masuda	
	x	JP 61263118	11-21-1986	Takashi	
	y	JP 8291385	11-05-1996	Fujikawa	hh
	z	WO 0240741	05-23-2002	Semmache	
	aa	WO 03060186	07-24-2003	Nguyen	b

Examiner Signature	<i>Bruce Bawin</i>	Date Considered	8/30/5
--------------------	--------------------	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

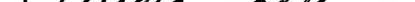
**U.S. PATENT AND TRADEMARK OFFICE, U.S. DEPARTMENT OF COMMERCE**

Substitute for form 1449A/PTO		<b>Complete If Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		<i>Application Number</i>	10/1820,634 <i>10/1821,207</i>
(Use as many sheets as necessary)		<i>Filing Date</i>	04-08-2004
		<i>First Named Inventor</i>	Venkat SELVAMANICKAM
		<i>Art Unit</i>	1763
		<i>Examiner Name</i>	Unknown <i>Zomuzi</i>
Sheet	2	of	4
		<i>Attorney Docket Number</i>	
		5005469-004US1	

## **U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
bb	US- 5,329,097	07-12-1994	Jones, et al.		261/530
cc	US-5,351,200	09-27-1994	Impink, Jr.		702/181
dd	US- 5,441,703	08-15-1995	Jurgensen		422/129
ee	US-5,536,323	07-16-1996	Kirlin, et.al.		118/726
ff	US- 5,554,224	09-10-1996	Foltyn		118/728
gg	US- 5,579,218	11-26-1996	Ehlig, et al.		702/1
hh	US- 5,595,606	01-21-1997	Fujikawa, et al.		118/725
ii	US- 5,622,606	04-22-1997	Kügler, et al.		204/192,12
jj	US- 5,624,498	04-29-1997	Lee, et al.		118/715
kk	US- 5,648,006	07-15-1997	Min, et al.		218/1444,1
ll	US- 5,653,806	08-05-1997	Van Buskirk, et al.		118/715
mm	US- 5,689,415	11-18-1997	Calotychos, et al.		702/67
nn	US- 5,711,816	01-27-1998	Kirlin, et al.		118/728
oo	US- 5,726,912	03-10-1998	Krall, Jr., et al.		702/186
pp	US- 5,739,086	04-14-1998	Goyal, et. al.		05/473
qq	US- 5,741,377	04-21-1998	Goyal, et al.		148/572
rr	US- 5,766,363	06-16-1998	Mizuno, et al.		118/725
ss	US- 5,783,153	07-21-1998	Logothetis, et al.		422/83
tt	US- 5,820,678	10-13-1998	Hubert, et al.		118/690
uu	US- 5,869,744	02-09-1999	Suzuki, et al.		73/23,32

## FOREIGN PATENT DOCUMENTS

**Examiner Signature**  **Date Considered** 8/21/15

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **<sup>1</sup>** Applicant's unique citation designation number (optional). **<sup>2</sup>** See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 201.04. **<sup>3</sup>** Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). **<sup>4</sup>** For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. **<sup>5</sup>** Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. **<sup>6</sup>** Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete If Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		<i>10/820,634</i>	<i>04/821,257</i>
(Use as many sheets as necessary)		<i>Filing Date</i>	<i>04-08-2004</i>
		<i>First Named Inventor</i>	<i>Venkat SELVAMANICKAM</i>
		<i>Art Unit</i>	<i>1763</i>
		<i>Examiner Name</i>	<i>Unknown</i>
Sheet	3	of	4
		<i>Attorney Docket Number</i>	<i>5005469-004US1</i>

## **U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
RR	vv	US- 5,872,080	02-16-1999	Arendt, et al.	cst 238
	ww	US- 5,876,673	03-02-1999	Logothetis, et al.	422/40 825/239
	xx	US- 5,898,020	04-27-1999	Goyal, et al.	118/718
	yy	US- 5,919,310	07-06-1999	Fujioka, et al.	703/233
	zz	US- 5,942,674	08-24-1999	Logothetis, et al.	428/465 + 148/426
	aaa	US- 5,958,599	09-28-1999	Goyal, et al.	701/1 427/48.1
	bbb	US- 5,964,966	10-12-1999	Goyal, et al.	505/461 112/189
	ccc	US- 5,980,078	11-09-1999	Krivoshein, et al.	291/360
	ddd	US- 6,010,748	01-04-2000	Van Buskirk, et al.	117/841
	eee	US- 6,022,832	02-08-2000	Fritzemeier, et al.	427/126.3
	fff	US- 6,027,564	02-22-2000	Fritzemeier, et al.	137/102
	ggg	US- 6,066,836	05-23-2000	Chen, et al.	108/715
	hhh	US- 6,106,615	08-22-2000	Goyal, et al.	291/380
	iii	US- 6,156,376	12-05-2000	Paranthaman, et al.	118/715, 341
	jjj	US- 6,196,251	03-06-2001	Roehle	118/715
	kkk	US- 6,206,972	03-27-2001	Dunham	118/715
	lll	US- 6,232,580	05-15-2001	Sandhu	118/715
	mmm	US- 6,245,192	06-12-2001	Dhindsa, et al.	703/233
	nnn	US- 6,294,026 B1	09-25-2001	Roithner, et al.	703/233
	ooo	US- 6,331,199	12-18-2001	Goyal, et. al.	703/233

## FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	8/30/15
--------------------	---	-----------------	---------

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **\*Applicant's unique citation designation number (optional).** **<sup>3</sup>** See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. **<sup>3</sup>** Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). **<sup>4</sup>** For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. **<sup>5</sup>** Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. **<sup>6</sup>** Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

**Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.**

Substitute for form 1449A/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/820,634 10/821,207
(Use as many sheets as necessary)		Filing Date	04-08-2004
		First Named Inventor	Venkat SELVAMANICKAM
		Art Unit	1763
		Examiner Name	Unknown <i>Zeru Jyn</i>
Sheet	4	of	4
		Attorney Docket Number	
		5005469-004US1	

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

**(Use as many sheets as necessary)**

Sheet 4 of 4

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures appear
		Number - Kind Code <sup>2</sup> (if known)			
ppp	US- 6,383,989		05-07-2002	Jia, et al.	505/236
qqq	US- 6,426,320		07-30-2002	Fritzemeier, et al.	419/28 525/461
rrr	US- 6,447,714		09-10-2002	Goyal, et. al.	
sss	US- 6,451,450		09-17-2002	Goyal, et. al.	
ttt	US-6,458,223		10-01-2002	Hans Thieme, et al.	148/435
uuu	US- 6,475,311		11-05-2002	Fritzemer, et al.	148/4077
vvv	US- 6,477,980 B1		11-12-2002	White, et al.	108/723E
www	US- 6,537,419 B1		03-25-2003	Kinnard, et al.	150/345,34
xxx	US- 6,541,121		04-01-2003	Usoskin, et al.	428/469
yyy	US- 6,541,136		04-01-2003	Kwon, et al.	428/701
zzz	US- 6,553,932 B2		04-29-2003	Liu, et al.	118/723E
aaaa	US- 6,562,761		05-13-2003	Fritzemeler, et al.	505/510
bbbb	US- 6,599,346		07-29-2003	Goyal, et al.	75/246
cccc	US- 6,602,313		08-05-2003	Goyal, et al.	75/245
dddd	US-6,607,838		08-19-2003	Goyal, et al.	428/557
eeee	US- 6,607,839		08-19-2003	Goyal, et al.	428/557
ffff	US- 6,610,413		08-26-2003	Goyal, et al.	428/557
gggg	US- 6,610,414		08-26-2003	Goyal, et al.	428/557
hhhh	US- 6,610,632		08-26-2003	Honjo, et al.	505/237
	US-				

## FOREIGN PATENT DOCUMENTS

**Examiner  
Signature**

*Ruth Reiss*

---

**Date Considered**

8/3.5

<sup>1</sup>EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.